

OBJECTIVE YIELD: Corn, Soybeans, and Spring Wheat, Minnesota, 1998-2002

The Minnesota Agricultural Statistics Service conducts objective yield surveys in the state for corn, soybeans, and spring wheat. Randomly selected plots in fields across the state are visited monthly from August through harvest to obtain specific counts and measurements. Data in these tables are rounded actual counts from these surveys and are not official estimates of the Agricultural Statistics Board, but are intended to show trends in production practices.

CORN FOR GRAIN: Plant Population per Acre 1/

Month	1998	1999	2000	2001	2002
	<u>Number of Plants</u>				
September	27,750	26,750	27,500	28,050	26,950
November 2/	27,650	26,800	27,150	28,000	26,800

CORN FOR GRAIN: Percentage Distributions by Row Width and Average Row Width

Year	Number of Samples	Row Width (Inches) 3/						Average Row Width
		20.5 or Less	20.6-30.5	30.6-34.5	34.6-36.5	36.6-38.5	38.6 & Greater	
	<u>Number</u>	<u>Percent of Plots</u>						<u>Inches</u>
1998	169	0.6	62.0	17.2	10.1	7.7	2.4	31.1
1999	162	0.0	63.5	19.8	4.3	9.3	3.1	30.6
2000	164	2.4	62.3	20.1	6.1	7.3	1.8	30.5
2001	162	2.5	66.7	22.2	3.1	4.3	1.2	29.5
2002	158	1.9	69.5	19.0	3.2	5.1	1.3	30.0

SOYBEANS: Pods with Beans per 18 Square Feet 1/

Month	1998	1999	2000	2001	2002
	<u>Number of Pods</u>				
September	1,598	1,612	1,607	1,492	1,688
November	1,450	1,563	1,507	1,475	1,739
Final	1,442	1,565	1,507	1,475	1,715

SOYBEANS: Percentage Distributions by Row Width and Average Row Width

Year	Number of Samples	Row Width (Inches) 3/					Average Row Width 3/
		10.0 & Less 4/	10.1-18.5	18.6-28.5	28.6-34.5	34.6 & Greater	
	<u>Number</u>	<u>Percent of Plots</u>					<u>Inches</u>
1998	105	17.6	21.0	15.7	43.8	1.9	22.0
1999	100	22.1	26.1	12.1	33.7	6.0	20.4
2000	95	23.7	19.5	12.1	42.6	2.1	20.8
2001	91	14.8	25.8	17.0	41.9	0.5	21.5
2002	103	19.9	24.3	20.9	33.0	1.9	20.2

SPRING WHEAT: Heads per Square Foot 5/

Month	1998	1999	2000	2001	2002
	<u>Number of Heads</u>				
September	45.8	49.0	52.5	49.2	6/
Final	45.8	49.4	52.5	49.1	50.6

1/ Based on counts in plots selected for objective yield samples.

2/ No change between November and final.

3/ Spacings based on row measurements in sample plots selected for objective yield survey.

4/ Broadcast soybeans included as 10.0 inches and less but excluded in computation of average width.

5/ Based on the number of heads counted in plots selected for the objective yield survey.

6/ September forecast discontinued.